

AMENDMENTS TO THE ABSTRACT:

Please replace the abstract of the disclosure with the following amended abstract:

~~Disclosed is an~~ An apparatus and method for error detection in a precise system board requiring reliability and safety for controlling a number of processes, in which a failure detector and maintainer is connected to the system board, so as to detect a failure of the system board ~~and normally maintain the operation of the system board even in failure.~~ The failure detector and maintainer is constituted by a single chip and connected to the system board to diagnose the failure and maintain the operation, and comprises a voter for judging signals received from the system board ~~using an at least 2/4 simultaneous generation logic to output an output signal;~~ a comparator for comparing signals from four channels of the system board to recognize a channel outputting a failure signal; and a detector for detecting the failure signal to execute a feedback signal for maintaining the operation of the system board, by which the signal from the detector is re-transmitted to the voter through an OR gate so that the operation of the system board can be maintained normal.

SUBSTITUTE ABSTRACT

An apparatus and method for error detection in a precise system board requiring reliability and safety for controlling a number of processes, in which a failure detector and maintainer is connected to the system board, so as to detect a failure of the system board. The failure detector and maintainer is constituted by a single chip and connected to the system board to diagnose the failure and maintain the operation, and comprises a voter for judging signals received from the system board; a comparator for comparing signals from four channels of the system board to recognize a channel outputting a failure signal; and a detector for detecting the failure signal to execute a feedback signal for maintaining the operation of the system board, by which the signal from the detector is re-transmitted to the voter through an OR gate so that the operation of the system board can be maintained normal.